

Math 2283 - Introduction to Logic

Quiz #9 - 2006.10.16

Name: _____

Determine if the following argument is valid or invalid. Do not use a truth table to determine your answer. If the argument is valid, state why (be sure to cover all possibilities). If the argument is invalid, state why and also state the conditions on the atomic wff's which make it invalid.

$$((q \wedge r) \Rightarrow s)$$

$$((p \wedge r) \Leftrightarrow (p \vee q))$$

$$(s \Rightarrow (r \vee p))$$

$$(s \vee p)$$

$$\therefore (p \vee (q \Leftrightarrow r))$$